

APPARATUS AND METHOD FOR TRANSMITTING SIGNAL BASED ON INTERLEAVING DELAY DIVERSITY

Abstract of the Disclosure

Provided is an apparatus and method for transmitting a signal based on interleaving delay diversity. The transmitting apparatus includes: a converting unit for converting an input data into a plurality of low data rate bit streams; a modulation unit for modulating the plurality of the low data rate bit streams by using Walsh codes, to thereby generate modulated signals; an adder for adding the modulated signals to generate a summation signal; a dividing unit for dividing the summation signal into at least two branch signals; a signal processing unit for generating a first output signal by interleaving one branch signal to generate an interleaved signal and multiplying the interleaved signal with a first code, and generating a second output signal by multiplying another branch by a second code; and a transmission unit for transmitting the first output signal and the second output signal, wherein the first code and the second code are orthogonal to the Walsh codes.

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